

Dog days

The **dog days** or **dog days of summer** are the hot, sultry days of summer. They were historically the period following the heliacal rising of the star system Sirius (known colloquially as the "Dog Star"), which Hellenistic astrology connected with heat, drought, sudden thunderstorms, lethargy, fever, mad dogs, and bad luck. They are now taken to be the hottest, most uncomfortable part of summer in the Northern Hemisphere.



Lilies in the late July heat, Lemnos, Greece



Cooling-off in a heat wave

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Etymology

The English name is a calque of the Latin *dies caniculares* (lit. "the puppy days"), itself a calque of the ancient Greek κυνάδες ἡμέραι *kynádes hēmérai*.^[1] The Greeks knew the star α Canis Majoris by several names, including Sirius "Scorcher" (Σείριος, *Seírios*), Sothis (Σῶθις, *Sôthis*, a transcription of Egyptian *Spdt*), and the Dog Star (Κύων, *Kúōn*).^[2] The last name reflects the way Sirius follows the constellation Orion into the night sky.^[3]

History

Sirius is by far the brightest proper star in the night sky, which caused ancient astronomers to take note of it around the world. In Egypt, its return to the night sky became known as a precursor to the annual flooding of the Nile and was worshipped as the goddess Sopdet. In Greece, it became known as the precursor of the unpleasantly hot phase of the summer. Greek poets even recorded the belief that the return of the bright star was responsible for bringing heat and fever with it;^[4] it was also associated with sudden thunderstorms.^[5] In Homer's *Iliad*, probably composed in the 8th century BC but representing an earlier tradition,^[6] Achilles's

approach towards Troy, where he will slay Hector, is illustrated through an extended metaphor about the baleful effects attending the return of Sirius:

τὸν δ' ὃ γέρων Πρίαμος
πρῶτος ἴδεν ὀφθαλμοῖσι
παμφαίνονθ' ὥς τ' ἄστέρ'
ἐπεσσύμενον πεδίοιο,
ὅς ῥά τ' ὀπώρης εἴσιν,
ἀρίζηλοι δέ οἱ αὐγαὶ
φαίνονται πολλοῖσι μετ'
ἀστράσι νυκτὸς ἀμολγῶ,
ὃν τε κύν' Ὠρίωνος ἐπὶ κλησιν
καλέουσι.
λαμπρότατος μὲν ὃ γ' ἐστί,
κακὸν δέ τε σῆμα τέτυκται,
καί τε φέρει πολλὸν πυρετὸν
δειλοῖσι βροτοῖσιν:
ὥς τοῦ χαλκὸς ἔλαμπε περὶ
στήθεσσι θεόντος.

Priam saw him first, with
his old man's eyes,
A single point of light on
Troy's dusty plain.
*Sirius rises late in the
dark, liquid sky
On summer nights, star of
stars,
Orion's Dog they call it,
brightest
Of all, but an evil portent,
bringing heat
And fevers to suffering
humanity.*
Achilles' bronze gleamed
like this as he ran.^[7]



In addition to following Orion into the night sky, the Dog Star Sirius can be easily located in the heavens by following the line created by the prominent asterism Orion's Belt.

The rising of Sirius during this period has been calculated as 19 July (Julian).^[8] Writing about the same time,^[9] Hesiod, however, considered the worst and hottest part of the summer to be the days *before* Sirius returned to the night sky. During this period, Sirius was invisible from the earth but it was apparently understood to still be in the sky, augmenting the power of the sun:



Trees and grass on Crete dried out by the August heat

ἦμος δὲ λήγει μένος ὀξέος ἡελίοιο
καύματος ἰδαλίμου, μετοπωρινὸν ὀμβρήσαντος
Ζηνὸς ἐρισθενέος, μετὰ δὲ τρέπεται βρότεος χρώς
πολλὸν ἐλαφρότερος: δὴ γὰρ τότε Σείριος ἀστήρ
βαιὸν ὑπὲρ κεφαλῆς κηριτρεφῶν ἀνθρώπων
ἔρχεται ἡμάτιος, πλεῖον δέ τε νυκτὸς ἐπαυρεῖ:
τῆμος ἀδηκτοτάτῃ πέλεται τμηθεῖσα σιδήρῳ
ῦλη, φύλλα δ' ἔραζε χέει, πτόρθοιό τε λήγει:
τῆμος ἄρ' ὕλοτομεῖν μεμνημένος ὥρια ἔργα.

When the piercing power and sultry heat of the sun abate, and almighty Zeus sends the autumn rains, and men's flesh comes to feel far easier,—for then the star Sirius passes over the heads of men, who are born to misery, only a little while by day and takes greater share of night—then, when it showers its leaves to the ground and stops sprouting, the wood you cut with your axe is least liable to worm.^[10]

This effect of the combination of Sirius' light with the Sun's was understood to have an effect on plants, animals, and women, as well as men:

ἥμος δὲ σκόλυμός τ' ἀνθεῖ καὶ ἡχέτα τέττιξ
δενδρέω ἐφεζόμενος λιγυρὴν καταχεύει· αἰοδὴν
πυκνὸν ὑπὸ πτερύγων, θέρεος καματώδεος ὥρη,
τῆμος πιόταταί τ' αἶγες καὶ οἶνος ἄριστος,
μαχλόταται δὲ γυναῖκες, ἀφαιρότατοι δέ τοι ἄνδρες
εἰσίν, ἐπεὶ κεφαλὴν καὶ γούνατα Σείριος ἄζει,
αὐαλέος δὲ τε χρώς ὑπὸ καύματος...

But when the artichoke flowers, [i.e., June] and the chirping grass-hopper sits in a tree and pours down his shrill song continually from under his wings in the season of wearisome heat, then goats are plumpest and wine sweetest; women are most wanton, but men are feeblest, because Sirius parches head and knees and the skin is dry through heat.^[11]

About a century later, Alcaeus repeated the theme, advising his listeners to "steep your lungs in wine" before the arrival of the star since "women are at their foulest but men are weak since they are parched in head and knees".^[12] In the 3rd century, Aratus' *Phenomena* describes the time as Sirius blighting the bark of trees with its heat during the time it rises and sets with the sun.^[13]

The Kean priests of Zeus as Rainmaker and Lord of Moisture^[14] observed annual sacrifices before the rise of Sirius to prevent scorching drought.^{[15][16]} This practice was credited to the culture hero Aristaeus.^{[15][17][18][19]} Aristotle mentions the proverbial heat of the dog days as part of his argument against an early formulation of evolution in his *Physics*.^[20]

The Romans continued to blame Sirius for the heat of the season and attendant lethargy and diseases.^[5] In his *Georgics*, Vergil notes vintners' efforts to protect their work during the time "when the Dog-star cleaves the thirsty Ground".^[22] Seneca's *Oedipus* complains of "the scorching dog-star's fires".^[23] Pliny's *Natural History* notes an increase in attacks by dogs during July and August, and advises feeding them chicken manure to curb the tendency.^[5] In the early 20th century, historians still noted the "discouraging heat" and "oppression" of the dog days of the Roman summer.^[24]

The period has long featured in western medicine. The 1564 English *Hope of Health* counseled that purging (bloodletting and induced vomiting) should be avoided during the "Dogge daies" of summer because "the Sunne is in Leo" and "then is nature burnt vp & made weake".^[25] The 1729 British *Husbandman's Practice* claimed that "The Heat of the Sun is so violent that Men's bodies at Midnight sweat as at Midday: and if they be hurt, they be more sick than at any other time, yea very near Dead". It therefore advised men to "abstain all this time from women" and to "take heed of feeding violently".^[5] In the 1813 *Clavis Calendria*, the dog days are a time wherein "the Sea boiled, the Wine turned sour, Dogs grew mad, Quinto raged with anger, and all other creatures became languid; causing to man, among other diseases, burning fevers, hysterics, and phrensies".^[26]

Even after astrology and its influence on health and agriculture waned in importance, the "dog days" continues to be vaguely applied to the hottest days of the summer, with its attendant effects on nature and society. In North America, it became proverbial among farmers that a dry growing season through the dog days was



A 9th-century astronomical manuscript, including an illustration of the constellation "Sirius".^[21]

preferable to the trouble of a wet one:

Dog days bright and clear
Indicate a good year;
But when accompanied by rain,
We hope for better times in vain.^[29]

Because "July is typically one of the quietest months of the year for stock trading", the term is sometimes used for the lethargic summer markets.^{[5][30]}

Span

Various computations of the dog days have placed their start anywhere from 3 July to 15 August and lasting for anywhere from 30 to 61 days.^[1] They may begin or end with the cosmical rising or heliacal rising of either Sirius in Canis Major or Procyon (the "Little Dog Star") in Canis Minor and vary by latitude, not even being visible throughout much of the Southern Hemisphere.^[1] Sirius observes a period of almost exactly 365¼ days between risings, keeping it largely consistent with the Julian but not the Gregorian calendar; nonetheless, its dates occur somewhat later in the year over a span of millennia.^[1]

In antiquity, the dog days were usually reckoned from the appearance of Sirius^[2] around 19 July (Julian)^[8] to relieving rains and cool winds, although Hesiod seems to have counted the worst of summer as the days leading up to Sirius's reappearance.^[10]

In Anglo-Saxon England, the dog days ran from various dates in mid-July to early or mid-September.^[31] Canonical "dog daies" were observed from July 7 to September 5 in the 16th-century English liturgies.^{[32][33]} They were removed from the prayer books at the restoration of the monarchy in 1660 and their term shortened to the time between July 19 and August 20.^[34] During the British adoption of the Gregorian calendar in 1752, they were shifted to July 30 to September 7.^[34]

Many modern sources in the English-speaking world move this still earlier, from July 3 to August 11,^{[1][34][35][5]} ending rather than beginning with or centering on the reappearance of Sirius to the night sky.

Scientific basis

Although Sirius is the brightest proper star in the night sky, it is 8.7 light-years (8.23×10^{13} km) away from Earth and has no effect whatsoever on the planet's weather or temperature.^{[5][36]} Although the star continues to return to the night sky in late summer, its position continues to gradually shift relative to the Sun and will rise in the middle of winter in about 10,000 years.^[5]

The effects of summer heat and rainfall patterns are real, but vary by latitude and location according to many factors. For example, London, UK is farther north than Calgary, Canada, but has a milder climate from the presence of the sea and the warm Gulf Stream current. A medical institution has reported a connection between Finland's dog days and increased risk of infection in deep surgery wounds,^{[37][38]} although that research remains unverified.



"Some Popular Alleviations of the Dog Days in Hotter New-York" in 1904, including children piled into a public fountain "when the 'cop' is not looking".^[27]

In popular culture

It is possible that the Roch, the legendary medieval patron saint of dogs celebrated by the Catholic Church on 16 August, owes some of his legacy to the dog days.^[5] From the period of his self-proclaimed protectorate over the island, the Danish adventurer Jørgen Jørgensen is remembered in Iceland as Jørgen the Dog-Day King (Icelandic: *Jörundur hundadagakonungur*).^[39]

In western literature, apart from the Greek and Roman works mentioned above, the dog days appear in John Webster's 1613 play *The Duchess of Malfi*,^[a] Charles Dickens' 1843 novella *A Christmas Carol*,^[b] R.H. Davis's 1903 short story "The Bar Sinister",^[c] J.M. Synge's 1909 poem "Queens",^[d] and Richard Adams's 1972 novel *Watership Down*.^[e] They feature in the children's novels *Tuck Everlasting* (1973).^[f] and *Dog Days* (2009) from the *Diary of a Wimpy Kid* series.^[46]

Dog Days is also the title of a Japanese anime series that premiered in 2011. The story revolves around a boy named Shinku Izumi, who is summoned to an alternate world where the inhabitants have animal ears and tails.

In film, the titles of *Dog Day Afternoon* (1975) and *Hundstage* (German for "Dog Days"; 2001) evoke their oppressive seasonal settings.^{[47][48]}

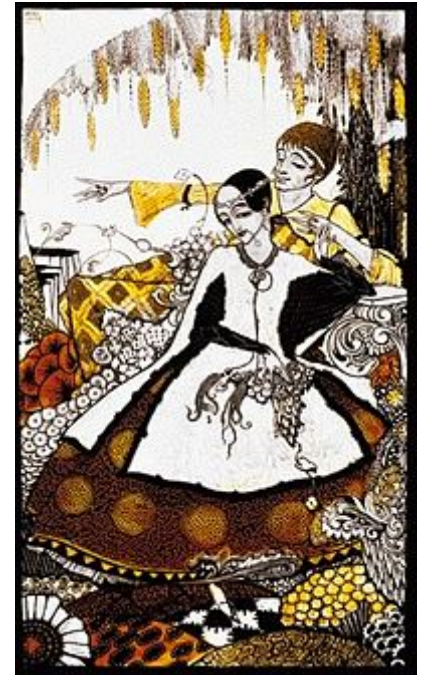
In music, there are Head of David's "Dog Day Sunrise", covered by Fear Factory in 1995; Florence and the Machine's 2009 "Dog Days Are Over";^[49] and Within Temptation's 2013 "Dog Days".

Dog Days is the title of a 2012 opera by composer David T. Little and librettist Royce Vavrek, based on the short story by Judy Budnitz.

"Dog-day" promotions are also a common feature in baseball, used by American ballparks to boost ticket sales during mid-afternoon games.^[5]



Orion (right) and Sirius (bottom), as seen from the Hubble Space Telescope



Harry Clarke's 1917 illustration of Synge's poem.

See also

- Star lore

Notes

- Bosola states that "blackbirds fatten best in hard weather: why not I in these dog days?"^[40]
- Ebenezer Scrooge is described as "carr[ying] his own low temperature always about with him" to the point where "he iced his office in the dog-days".^[41]
- The main character, a street dog, opines that "when the hot days come... they might remember that those are the dog days, and leave a little water outside... like they do for the horses".^[42]
- The poem opens:

Seven dog-days we let pass
Naming Queens in Glenmacnass...^[43]

- e. Describing the English summer, Adams writes "Now came the dog days—day after day of hot, still summer, when for hours at a time light seemed the only thing that moved; the sky-sun, clouds and breeze-awake above the drowsing downs."^[44]
- f. Describing the book's setting in the first week of August, the prologue speaks of "strange and breathless days, the dog days, when people are led to do things they are sure to be sorry for after".^[45]

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